



NEUROSURGERY DEPARTMENT



Neurosurgical Pathology Curriculum

i. DEVELOPMENTAL ANOMALIES

1. Intracranial Anomalies

- Arachnoid Cysts
- Dandy Walker Malformation
- Aqueductal Stenosis

2. Spinal Anomalies

- Spinal Dysraphism
- Klippel-Feil Syndrome
- Tethered Cord Syndrome
- Split Cord Syndrome

3. Cranio-Spinal Anomalies

- Chiari Malformations
- Neural Tube Defects
- Neuroenteric Cysts

ii. INFECTION

- Meningitis
- Cerebral Abscess
- Subdural Empyema
- Neurologic Involvement Of HIV
- Lyme Disease



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- Nocardia Brain Abscess
- Shunt Infection
- EVD Related Infections
- Wound Infections
- Osteomyelitis Of The Skull
- Spine Infections
- Parasitic Infection Of CNS
- Fungal Infection Of CNS
- Amebic Infection Of CNS

iii. HYDROCEPHALUS

- Normal Pressure Hydrocephalus
- Arrested Hydrocephalus
- Entrapped Fourth Ventricle
- External Hydrocephalus

iv. SYNDROMES INVOLVING TUMORS

- Neurocutaneous Disorders
- Familial Tumor Syndromes

v. PRIMARY TUMORS OF THE NERVOUS SYSTEMS

- Classification Of Nervous System Tumors
- Astrocytomas
- Pilocytic Astrocytomas



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- Pleomorphic-Xanthoastrocytoma
- Oligodendroglial Tumors
- Ependymal Tumors
- Choroid Plexus Tumors
- Neuroglial Tumors
- Pineal Region Tumors
- Embryonal Tumors
- Tumors Of The Cranial, Peripheral And Spinal Nerves
- Meningiomas And Tumors Related To Meninges

vi. TUMORS OF NON-NEURAL ORIGIN

- Lymphomas And Hematopoietic Tumors
- Pituitary Tumors
- Cysts And Tumor-Like Cysts
- Skull Lesions
- Tumors Of The Spine And Spinal Cord
- Cerebral And Spinal Metastasis

vii. HEAD TRAUMA

- Skull Fractures
- Traumatic Hemorrhagic Conditions
- Penetrating Head Injuries
- Pediatric Head Injury

viii. SPINE TRAUMA



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- Whiplash And Sports Related Injuries
- Occipito-Atlanto-Axial Injuries
- Subaxial Injuries
- Thoracic, Lumbar And Sacral Fractures

ix. SPINE AND SPINAL CORD

- Cervical, Lumbar And Thoracic Disc Herniation
- Degenerative Cervical, Thoracic And Lumbar Disease
- Pagets Disease Of The Spine
- Ankylosing Spondylitis
- OPLL
- Spinal Epidural Hematoma
- Syringomyelia

x. ANEURYSMS AND VASCULAR MALFORMATIONS

- Cerebral Aneurysms
- Arteriovenous Malformation
- Venous Angiomas
- Cavernous Malformation
- Vein Of Galen Malformation

Head Of The Department

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